

Technical Data Sheet



Thermal	
Thermal Conductivity	0.035 Wm ⁻¹ K ⁻¹
Density	31 kg/m ³
Specific Heat Capacity	1800 Jkg ⁻¹ K ⁻¹
Vapour Resistivity	9 MNsg ⁻¹ m ⁻¹

Material Protection	
Mould Resistance CUAP 2002-01-25	Pass
Moth/Beetle Proofing ISO 3998	Pass

Fire	
BS 5803-4, Flammability & Smoulder Resistance	Pass
EN11925-2, Reaction to Fire	Pass
Fire Classification	EuroClass E

Physical	
Recoverability and thickness, EN 823	Pass
Dimensional stability to EN 1604	Pass

Hygrothermal						
Porosity			23.8%			
'Surface' water absorption coefficient (kg/m ² . h ^{0.5})			1.49 (7.7%)			
'Edge' water absorption coefficient (kg/m ² . h ^{0.5})			0.79 (6.0%)			
Water Vapour Resistance Factor, μ			(-) Dry:1.99 (5.8%) (-) Wet:0.89 (7.7%)			
Vapour sorption:						
Relative Humidity						
Sorption	0%w/w	30%w/w	50%w/w	75%w/w	95%w/w	
Moisture Content	0.00%	5.20%	7.91%	11.05%	16.74%	
Deviation		(4.7%)	(7.9%)	(6.3%)	(11.0%)	
Relative Humidity						
Desorption	95%w/w	75%w/w	50%w/w	30%w/w	0%w/w	
Moisture Content	16.4%	11.10%	9.42%	7.95%	0.00%	

Eden Renewable Innovations Ltd

Sales & General Enquiries: 017684 86285 | enquiries@thermafleece.com

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Environmental	
GWP (A1-A3) total	0.05 kgCO _{2e} R1 Functional Unit
GWP (A1-C4) total	1.44 kgCO _{2e} R1 Functional Unit
GWP (A1-D) total	-0.50 kgCO _{2e} R1 Functional Unit
Recycled Content	20%
Recyclable	Yes
EPD registration no	S-P-04468
EPD valid to	31/10/26
Manufactured to ISO 14001	Certificate No: 23/3478

Acoustic							
Sound absorption			NRC 1.10 @ 90mm				
Sound reduction			Rw 41dB - 54dB @ 70mm				
Can be used to achieve airborne sound reduction of R _w			41dB				
Freq HZ		125	250	500	1000	2000	4000
UltraWool 50mm	Absorption Coefficient	0.2	0.55	0.85	0.9	1	1
UltraWool 90mm		0.5	1	1	1	1	1

Air Quality	
TVOC	9 µg/m ³ @ 3 days, n.d. @ 28 days
Carcinogenic compounds	n.d. @ 3 days, n.d. @ 28 days
Formaldehyde	<2 µg/m ³ @ 3 days, <2 µg/m ³ @ 28 days

Quality	
Manufactured to ISO 9001	Certificate No: 23/3477
Dimensional stability to EN 1604	Pass

Dimensions	
Thicknesses (+20mm/-0mm)	50, 70, 90 mm
Widths (+20mm/-10mm)	390 & 590 mm
Slab Lengths (+25mm /-25mm)	12.00 mm, all sizes

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